IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit: 1796

Andreas Bacher et al.

Examiner: Olatunde S. Ojurongbe

Serial No.: 10/552,678

Filed: October 10, 2005

For: Use Of Silane-Functional Polyvinyl Alcohols in

Priming Agents For Separating Papers and Films

Attorney Docket No.: WAS 0708 PUSA

AMENDMENT UNDER 37 C.F.R. § 1.111

Mail Stop Amendment Commissioner for Patents U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Responsive to the Office Action dated August 13, 2008, kindly amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 7. (Cancelled)

8. (Currently Amended) [[In a]] A process for the preparation of release films and coatings on a substrate by applying a primer to the substrate and then applying a silicone release coating, the improvement comprising,

selecting as applying a primer[[,]] comprising at least one silane-containing polyvinyl alcohol derived from fully or partly hydrolyzed vinyl ester copolymers having a degree of hydrolysis of 75 to 100 mol%, obtained by free-radical polymerization of

- a) one or more vinyl esters of unbranched or branched alkylcarboxylic acids having 1 to 18 carbon atoms, of which a fraction of 1 to 30 mol%, based on total polymer, are one or more 1-alkylvinyl esters of carboxylic acids having 1 to 6 carbon atoms, wherein the alkyl radicals have 1 to 6 carbon atoms.
- b) 0.01 to 10 mol% of one or more silane-containing, ethylenically unsaturated monomers, and, optionally,
- c) further comonomers copolymerizable therewith, and hydrolyzing the resultant polymers, and

applying over the primer, a silicone release coating.

- 9. (Previously Presented) The process of claim 8, wherein the silane-containing polyvinyl ester copolymer is a copolymer of vinyl acetate.
- 10. (Previously Presented) The process of claim 8, wherein said 1-alkylvinyl esters are selected from the group consisting of 1-methylvinyl acetate, 1-ethylvinyl acetate, and 1-propylvinyl acetate, and mixtures thereof.

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11. (Previously Presented) The process of claim 8, wherein the silane-containing polyvinyl alcohol is obtained by copolymerizing one or more ethylenically unsaturated, silane-containing monomers selected from the group consisting of ethylenically unsaturated silicon compounds of the formula (I) $R^1SiR^2_{0-2}(OR^3)_{1-3}$, where R^1 is $CH_2=CR^4-(CH_2)_{0-3}$ or $CH_2=CR^4CO_2(CH_2)_{1-3}$, R^2 is a C_1 to C_3 alkyl radical, C_1 to C_3 alkoxy radical, or halogen, R^3 is an unbranched or branched, unsubstituted or substituted alkyl radical having 1 to 12 carbon atoms, or is an acyl radical having 2 to 12 carbon atoms, R^3 optionally interrupted by an ether group, and R^4 is H or CH_3 , and meth(acrylamides) containing silane groups, of the formula (II) $CH_2=CR^5-CO-NR^6-R^7-SiR^8_{m^-}(R^9)_{3-m}$, where m=0 to 2, R^5 independently is H or a methyl group, R^6 is H or an alkyl group having 1 to 5 carbon atoms, R^7 is an alkylene group having 1 to 5 carbon atoms or a divalent organic group in which the carbon chain is interrupted by an O or N atom, R^8 is an alkyl group having 1 to 5 carbon atoms, and R^9 is an alkoxy group having 1 to 40 carbon atoms, optionally substituted by heterocycles.

- 12. (Previously Presented) The process of claim 11, wherein the silane-containing polyvinyl alcohol is obtained by copolymerizing one or more ethylenically unsaturated, silane-containing monomers selected from the group consisting of γ -acryloyl- and γ -methacryloyl-oxypropyltri(alkoxy)silanes, α -methacryloyloxymethyltri(alkoxy)silanes, γ -methacryloyloxypropylmethyldi(alkoxy)silanes, vinylalkyldi(alkoxy)silanes, and vinyltri(alkoxy)silanes.
- 13. (Previously Presented) The process of claim 12, wherein at least one alkoxy group is selected from the group consisting of methoxy, ethoxy, methoxyethyleneoxy ethoxyethyleneoxy, methoxypropyleneoxy and ethoxypropyleneoxy radicals.
- 14. (Previously Presented) The process of claim 8, wherein 0.01 to 1.5 mol% of ethylenically unsaturated, silane-containing monomers are copolymerized.

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15. (Previously Presented) A release film or paper, comprising: a substrate, a primer coat applied to the substrate, and a silicone release coating applied over the primer, wherein the primer comprises a primer of claim 8.

- 16. (Previously Presented) A release film or paper comprising a substrate, a primer coat applied to the substrate, and a silicone release coating applied over the primer, wherein the primer comprises at least one silane-containing polyvinyl alcohol derived from fully or partly hydrolyzed vinyl ester copolymers having a degree of hydrolysis of 75 to 100 mol%, obtained by free-radical polymerization of
 - a) one or more vinyl esters of unbranched or branched alkylcarboxylic acids having 1 to 18 carbon atoms, of which a fraction of 1 to 30 mol%, based on total polymer, are one or more 1-alkylvinyl esters of carboxylic acids having 1 to 6 carbon atoms, wherein the alkyl radicals have 1 to 6 carbon atoms,
 - b) 0.01 to 10 mol% of one or more silane-containing, ethylenically unsaturated monomers, and, optionally,
 - c) further comonomers copolymerizable therewith, and hydrolyzing the resultant polymers.
- 17. (Currently Amended) The process of claim 8, wherein the primer consists essentially of at least one silane-containing polyvinyl alcohol based on fully or partly hydrolyzed vinyl ester copolymers having a degree of hydrolysis of 75 to 100 mol%,, obtained by free-radical polymerization of
 - a) one or more vinyl esters of unbranced unbranched or branched alkylcarboxylic acids having 1 to 18 carbon atoms, of which a fraction of 1 to 30 mol%, based on total polymer, are one or more 1-alkyl-vinyl esters having alkyl radicals having 1 to 6 carbon atoms, and of carboxylic acids having 1 to 6 carbon atoms,
 - b) 0.01 to 10 mol% of one or more silane-containing, ethylenically unsaturated monomers, and, if desired,

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c) further comonomers, copolymerizable therewith, and hydrolysis of the resultant polymers, and

d) optionally, pigments, polyvinyl alcohols other than a silane-containing polyvinyl alcohol, carboxymethylcellulose, starch, starch derivatives, alginates, proteins, aqueous polymer dispersions based on (meth)acrylic acid, (meth)acrylic esters, acrylonitrile, vinyl acetate, butadiene, styrene, plasticizers, and catalysts.